

**PREPARATION OF HOT MIX ASPHALT SPECIMENS
BY MEANS OF THE
SUPERPAVE GYRATORY COMPACTOR
AASHTO T 312**

APPARATUS

- ☐ Superpave Gyratory Compactor
- ☐ Molds
 - ☐ Inside diameter of molds 149.90 to 150.00 mm
 - ☐ At least 250 mm high
 - ☐ Walls at least 7.5 mm thick
 - ☐ Base plate face has a diameter of 149.50 to 149.75 mm
- ☐ Oven themostatically controlled to $\pm 5^{\circ}\text{F}$

PROCEDURE

- ☐ Mixture is heated in oven to $300 \pm 9^{\circ}\text{F}$ for dense graded or SMA mixtures, or $260 \pm 9^{\circ}\text{F}$ for open graded mixtures
- ☐ Mold and base plate heated for a minimum of 30 minutes at required compaction temperature
- ☐ Disk placed in mold, mixture placed into mold in one lift, mixture leveled, and paper disk placed on top of leveled material
- ☐ Ram pressure set at 600 Pa
- ☐ Angle of gyration $\pm 0.02^{\circ}$ from adjusted external angle
- ☐ Rate of gyrations set at 30 gyrations per minute
- ☐ Number of gyrations is the same as required for N_{Des} from the mix design

NA - Not Applicable

X - Requires Corrective Action

√ - Satisfactory

Acceptance Technician

INDOT

Date

Comments _____
